

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P#

Luminaire Tested: 14D3X-LP-50-L840.ies

Issue Date: 2/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P601206)
Test Lab: INNOVATION CENTER
Issue Date: 2/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-50-L840.ies
Description: 1x4 D3X-LP AT 5000lm 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

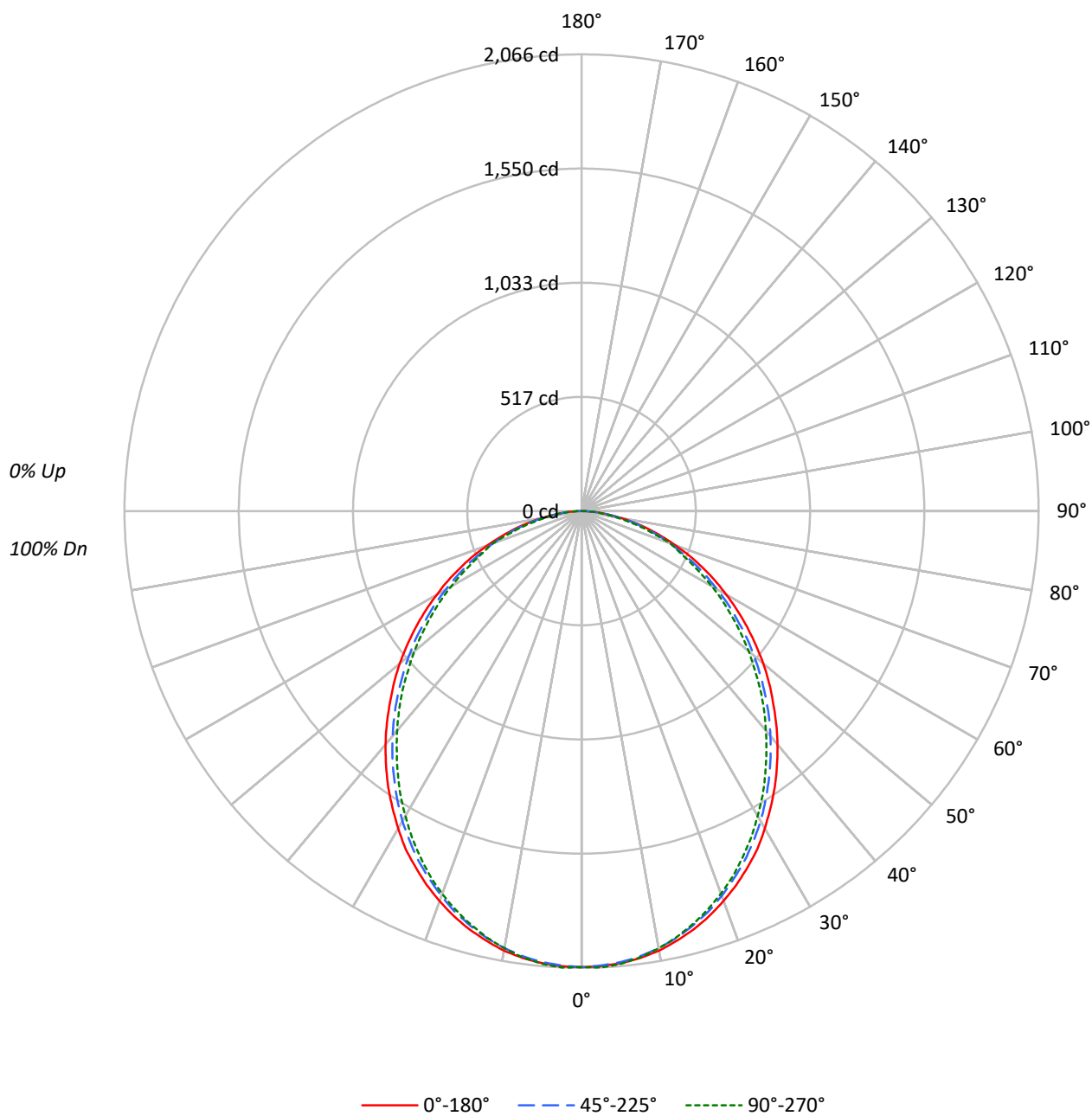
Lumens per Lamp: N/A
Luminaire Lumens: 5123.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P#
CATALOG NUMBER: 14D3X-LP-50-L840.ies

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-50-L840.ies

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85		
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5551	5551	5551
5°	5544	5532	5552
10°	5517	5484	5488
15°	5456	5410	5393
20°	5374	5305	5275
25°	5276	5181	5123
30°	5149	5031	4947
35°	5006	4851	4757
40°	4842	4666	4555
45°	4658	4467	4352
50°	4490	4261	4128
55°	4285	4037	3894
60°	4060	3807	3660
65°	3829	3578	3414
70°	3540	3337	3373
75°	3260	3071	2913
80°	2841	2723	2441
85°	2387	2245	2245

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4658 cd/sqm

TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-50-L840.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	3.8
10°-20°	548.2	10.7
20°-30°	804.4	15.7
30°-40°	926.5	18.1
40°-50°	909.4	17.8
50°-60°	775.4	15.1
60°-70°	560.9	10.9
70°-80°	315.4	6.2
80°-90°	88.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1547.2	30.2
0°-40°	2473.6	48.3
0°-60°	4158.5	81.2
0°-90°	5123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2063	2063	2063	2063	2063	
5°	2052	2054	2048	2054	2056	195
15°	1958	1956	1942	1939	1936	552
25°	1777	1763	1745	1731	1725	818
35°	1524	1506	1477	1457	1448	952
45°	1224	1209	1174	1151	1144	946
55°	913	894	860	839	830	817
65°	601	585	562	541	536	597
75°	314	308	295	283	280	331
85°	77	80	73	73	73	89
90°	0	0	0	0	0	

TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-50-L840.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2063.0	2063.0	2063.0	2063.0	2063.0
2.5°	2060.0	2061.5	2057.0	2064.6	2066.1
5°	2052.4	2053.9	2047.9	2053.9	2055.5
7.5°	2038.8	2038.8	2031.2	2035.8	2035.8
10°	2019.1	2016.1	2007.0	2008.5	2008.5
12.5°	1990.3	1990.3	1978.2	1978.2	1975.2
15°	1958.5	1955.5	1941.9	1938.8	1935.8
17.5°	1920.7	1916.1	1901.0	1894.9	1891.9
20°	1876.7	1869.2	1852.5	1844.9	1841.9
22.5°	1829.8	1819.2	1799.5	1790.4	1787.4
25°	1776.8	1763.1	1744.9	1731.3	1725.3
27.5°	1722.2	1708.6	1682.8	1667.7	1661.6
30°	1657.1	1643.5	1619.2	1601.0	1592.0
32.5°	1590.4	1578.3	1549.5	1529.9	1523.8
35°	1523.8	1505.6	1476.8	1457.2	1448.1
37.5°	1451.1	1435.9	1404.1	1382.9	1372.3
40°	1378.4	1363.2	1328.4	1305.7	1296.6
42.5°	1302.7	1283.0	1252.7	1228.4	1220.9
45°	1223.9	1208.7	1173.9	1151.2	1143.6
47.5°	1149.7	1126.9	1095.1	1072.4	1061.8
50°	1072.4	1051.2	1017.9	993.7	986.1
52.5°	992.1	974.0	940.6	916.4	907.3
55°	913.4	893.7	860.4	839.1	830.1
57.5°	834.6	816.4	786.1	761.9	755.8
60°	754.3	737.7	707.4	687.7	680.1
62.5°	680.1	660.4	633.1	613.5	605.9
65°	601.3	584.7	562.0	540.8	536.2
67.5°	528.6	516.5	487.7	472.6	474.1
70°	449.9	449.9	424.1	409.0	428.7
72.5°	380.2	381.7	359.0	349.9	342.3
75°	313.5	307.5	295.4	283.3	280.2
77.5°	246.9	249.9	239.3	216.6	213.6
80°	183.3	199.9	175.7	160.6	157.5
82.5°	125.7	142.4	121.2	113.6	112.1
85°	77.3	80.3	72.7	72.7	72.7
87.5°	33.3	37.9	36.4	36.4	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)